

City of Hamilton GENERAL ISSUES COMMITTEE AGENDA

Meeting #: 21-002(e)

Date: January 27, 2021

Time: 9:30 a.m.

Location: Due to the COVID-19 and the Closure of City

Hall

All electronic meetings can be viewed at:

City's Website:

https://www.hamilton.ca/council-committee/council-committee-meetings/meetings-and-agendas

City's YouTube Channel:

https://www.youtube.com/user/InsideCityofHa

milton or Cable 14

Stephanie Paparella, Legislative Coordinator (905) 546-2424 ext. 3993

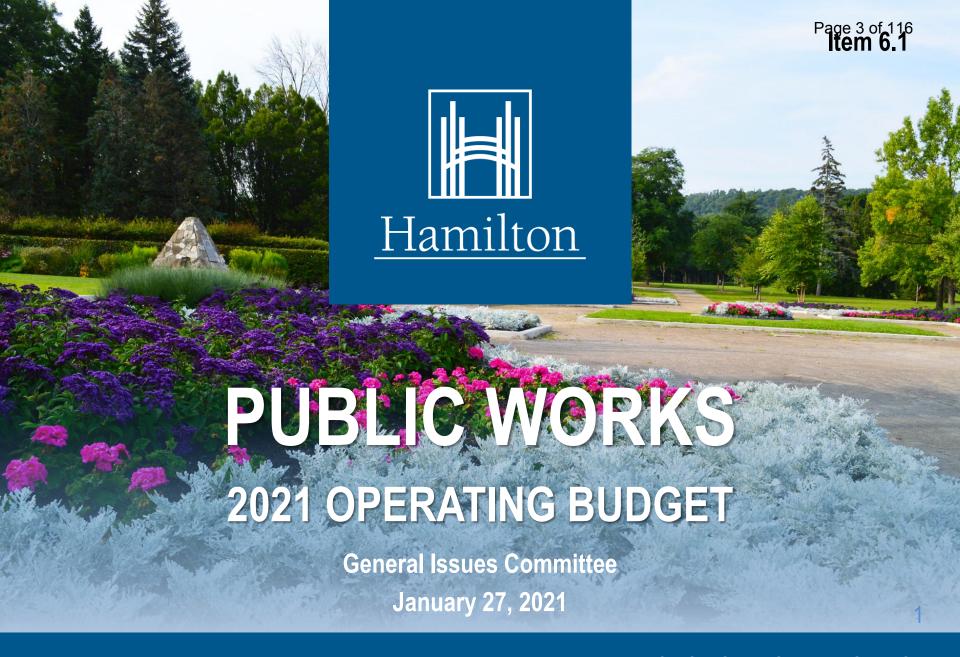
Pages

- APPROVAL OF AGENDA
- 2. DECLARATIONS OF INTEREST
- 3. APPROVAL OF MINUTES OF PREVIOUS MEETING
- 4. COMMUNICATIONS
- 5. CONSENT ITEMS
- 6. STAFF PRESENTATIONS
 - 6.1. Public Works Department 2021 Tax Supported Operating Budget

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- 7. DISCUSSION ITEMS
- 8. MOTIONS
- 9. NOTICES OF MOTION

- 10. GENERAL INFORMATION / OTHER BUSINESS
- 11. PRIVATE & CONFIDENTIAL
- 12. ADJOURNMENT



DEPARTMENT OVERVIEW

Public Works contributes towards the City of Hamilton's vision to be the best place to raise a child and age successfully.

The Public Works Department supports the City's vision by providing high quality cost conscious public services that contribute to a healthy, safe and prosperous community, in a sustainable manner. The department brings the City's vision and mission to life through its core services including corporate facility management, infrastructure rehabilitation, roads operations, parks and green space maintenance, transit, and waste management which are essential to the lives of residents and visitors to the City.

Public Works provides services that are central to the lives of Hamiltonians.



SERVICES AND SUB-SERVICES

Cemeteries

- · Active Cemetery Management
- Dormant Cemetery Management
- Active Cemeteries Support Services

Corporate Security

Energy Initiatives

- Energy Engineering Services
- Utilities

Engineering Services

- Asset Management
- Construction Services
- Corridor Services
- Design Services
- · Survey and Technical Services
- Waterfront Development Initiative

Facilities Management

- Accommodations
- · Capital Planning and Project Management
- · Facilities Operations and Maintenance
- Energy Engineering Services
- Facilities Planning and Business Support
- Stadium Operations

Fleet Services Management

- Capital Planning and Contract Management
- Fleet Maintenance
- Materials, Fuel and Systems Management
- Regulatory Compliance and Driver Training

Forestry

- Tree Maintenance
- Tree Planting
- Tree Maintenance and Planting Support Services

Horticultural Programs

- Beautification
- Beautification Support Services

Parks and Open Space Access

- Parks Maintenance
- Planning, Design, Development and Acquisition
- Natural Open Spaces
- Parks and Natural Open Space Support Services

Public Transportation

- Conventional Public Transit
- Rapid Transit
- Specialized Public Transit

Roadway Maintenance

- Right of Way Infrastructure Maintenance Support Services
- · Right of Way Infrastructure Repairs and Maintenance
- Business Initiatives

Transportation Operations

- Traffic Engineering and Road Safety
- Traffic Signals, Traffic Signs and Traffic Pavement Markings

Solid Waste Management

- Cleanliness Services
- Organic Waste Collection
- Leaf and Yard Waste Collection Services
- Recycling Collection
- · Bulk Waste Collection Services
- Garbage Collection
- Community Recycling Centres & Waste Transfer Facilities
- Organic Waste Processing
- Recycling Processing
- Landfill Operation
- Closed Landfill Monitoring
- · Solid Waste Support Services

Storm Water Management

- Infrastructure Maintenance
- Storm Water Collection
- Storm Water Support Services
- Storm Water Treatment

Water Supply and Distribution

- Water Distribution
- Water Supply
- Water Support Services

Wastewater Collection and Treatment

- Wastewater Collection
- Wastewater Support Services
- Wastewater Treatment

BUDGET SCHEDULE: HAMILTON WATER & TRANSIT

Water – Rate Budget

November 23, 2020

Capital Budget

November 27, 2020

Transit Day

January 22, 2021

Public Works

January 27, 2021

- Energy, Fleet & Facilities
- Engineering Services
- Environmental Services
- Transportation Operations & Maintenance







STRATEGIC PLAN

管PRIORITIES





COMMUNITY ENGAGEMENT & PARTICIPATION

Hamilton has an open, transparent and accessible approach to City government that engages with and empowers all citizens to be involved in their community.



ECONOMIC PROSPERITY & GROWTH

Hamilton has a prosperous and diverse local economy where people have opportunities to grow and develop.



HEALTHY & SAFE COMMUNITIES

Hamilton is a safe and supportive city where people are active, healthy, and have a high quality of life.



CLEAN & GREEN

Hamilton is environmentally sustainable with a healthy balance of natural and urban spaces.



BUILT ENVIRONMENT & INFRASTRUCTURE

Hamilton is supported by state of the art infrastructure, transportation options, buildings and public spaces that create a dynamic City.



CULTURE & DIVERSITY

Hamilton is a thriving, vibrant place for arts, culture, and heritage where diversity and inclusivity are embraced and celebrated.



OUR PEOPLE & PERFORMANCE

Hamiltonians have a high level of trust and confidence in their City government.



TERM OF COUNCIL PRIORITIES (2018 – 2022)

- Climate Change
- Multi-Modal Transportation
- Homelessness & Affordable Housing
- Integrated Growth & Development
- Fiscal Health & Financial Management
- Equity, Diversity & Inclusion
- Trust & Confidence in City Government
- A Healthy, Respectful & Supportive Workplace









Emergency Response & Support

- Widespread facility closures
- Supply distribution warehouse
- Emergency overflow shelter at FirstOntario Centre
- Dave Andreychuk Arena drive-through testing centre



Municipal Facilities Closed



Drive-Through Testing Centre



Supply distribution warehouse



First Ontario Centre Shelter



Emergency Response & Support

- Significant impacts to Transit
- Closures facilities, escarpment stairs, play structures, etc.
- Signage, barriers, caution tape, etc.
- Enhanced cleaning and disinfecting
- Modifications in municipal buildings



Closed Playground Structures



Enhanced cleaning and disinfecting



Additional cleaning on HSR vehicles



Barriers on the Escarpment Stairs

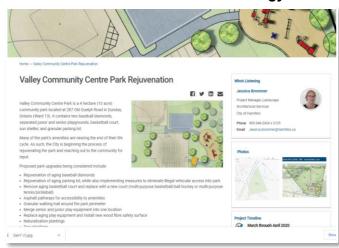
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Delivering Services

- Continued delivering our services
 - Minor disruption to leaf and yard waste collection
 - Transit impacts to ridership/revenues
 - Some construction projects on hold
- New health and safety measures
- Implementing virtual / online options
- Technology and dashboards
- Changes to public consultation
- Cross training for essential services
- Remote workforce



Increased reliance on technology



Virtual Public Consultation

Evolving Our Operations

- Strong focus on health and safety measures
- Enhanced PPE for safer operations (bioshields and face coverings)
- Reliance on Quality Management System
- Continued facility modifications
- Remote work collaboration





HSR - Driver's Bioshield



Increased PPE for waste collectors



Physical distancing at a safety talk 12









CLEAN & GREEN 2020 HIGHLIGHTS

LED Technology

Annual electricity costs for street lighting since 2014

80% of Emerald Ash Borer Program Complete



6 Electric Vehicles



8.5 lane km of new bike paths



Beautified



268,410 Plants Grown



325 Floral Traffic Islands



133 Perennial Medians



79 Civic Buildings **11**



691 Hanging Baskets



12,040 Trees Planted







CLEAN & GREEN 2020 HIGHLIGHTS



3.6%

6.4%

6.6%

7.7%

39.8%

Residential Waste Diversion Achieved

142,000 Landfill Tonnes

Residential garbage and residue from processing facility 15,000 Tonnes

Green Cart materials 39,200 Recycling Tonnes

Materials sent to end markets from Blue Box program and Community Recycling Centres 26,400 Tonnes Leaf and

Yard Waste







CLEAN & GREEN 2020 HIGHLIGHTS

Waste Highlights

- New Equipment for Downtown Cleanliness Program
- Materials Recycling Facility Lighting Upgrade

Construction Highlights

- 500 MacNab Passive House (CityHousing Hamilton) under construction
- Valley Park Library LEED under construction
- Completion of the Biosolids Management Facility



New Equipment for Downtown Cleanliness



Biosolids Management Facility





CLEAN & GREEN

Transit

- Cemeteries
- Parks and trails
 Horticulture
- Play structures
- Waste collection









Mobility Recovery Plan

- Collaborative initiative between PED and PW
- Focus on enhancing availability of sustainable transportation modes and supporting COVID-19 recovery
- Opportunity to advance and expedite cycling projects identified in the Transportation Master Plan
- Enhanced and added new cycling facilities
- Concrete cycling curbs
- Bike scale hazard markers



CLEAN & GREEN



Bike scale hazard markers

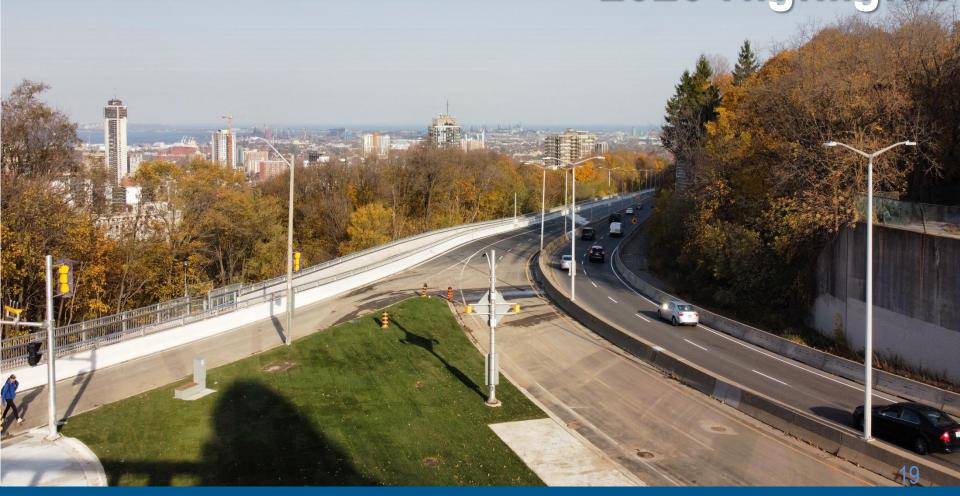


Concrete cycling curbs

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Built Environment & Infrastructure 2020 Highlights







BUILT ENVIRONMENT & INFRASTRUCTURE 2020 HIGHLIGHTS



26 Projects

\$76.3 Million





Infrastructure Rehabilitation











6.86 km Sewer Rehab





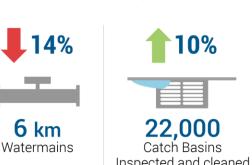




















5.5 lane km

existing bicycle lanes with modified buffers/ barriers



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Street Light Poles Replaced



BUILT ENVIRONMENT & INFRASTRUCTURE Asset Management Control of the Asset Management Plan 2020 HIGHLIGHTS

Strategic Asset Management Plan

Major Right-of-Way Projects

- Claremont Access
- Locke Street Reconstruction (Project of the Year)
- Rymal Road
- Birch Avenue
- Highway 8
- Queen Street South Two-Way Conversion
- Victoria Street Two-Way Conversion
- North Service Road
- LINC Rehabilitation

Programs

- Street lighting pole replacement program
- Asphalt quality testing and compliance



Queen St Two-Way Conversion



Highway 8 Dundas



BUILT ENVIRONMENT & INFRASTRUCTURE 2020 HIGHLIGHTS



Claremont Access



North Service Road



Keddy Access Trail



Queen St Conversion



Rymal Road



Highway 8 Dundas







BUILT ENVIRONMENT & INFRASTRUCTÜRE 2020 HIGHLIGHTS

Facilities

- \$55.5M capital delivery for facilities (value of work delivered in 2020 for various clients)
 - 5 Year Average: \$50.1M, 174 capital projects annually

Major Projects in 2020

- Valley Park Recreation Centre Fall 2021
- Ancaster Arts Centre Winter 2021
- 500 MacNab St Passive House Spring 2021
- Police Investigative Services Division –September 2020
- Lister Annex Late 2020
- 100 King Street West Office Space Spring 2021



100 King St W Office Space



500 MacNab St - CityHousing





BUILT ENVIRONMENT & INFRASTRUCTÜRE 2020 HIGHLIGHTS

Facilities Funding Streams: 2020

BLOCK FUNDING	FACILITY RESERVES	DC FUNDED	SPECIAL*	OTHER CLIENTS	NOT IN PORTFOLIO
 Corporate facilities Recreation facilities Long Term Care Facilities Entertainment facilities 	LibrariesStoney Creek City Hall	 New Development Recreation Corporate Facilities (Ancaster Arts Centre) New Development Libraries 	 Ancaster Arts Centre Downtown Accommodation Lister Annex Transit (ICIP) 	City HousingPolice Services	 Heritage Facilities Airport CV - VanWagners Beach Wild Water Works



^{*}Council approved and/or funding from other levels of government



BUILT ENVIRONMENT & INFRASTRUCTURE 2020 HIGHLIGHTS



Valley Park Recreation Centre



Ancaster Arts Centre



500 MacNab St N



Police Investigative Services



ListerAnnex



100 King St W







BUILT ENVIRONMENT & INFRASTRUCTURE 2020 HIGHLIGHTS

Disaster Mitigation Adaptation Fund

- Shoreline Protection
- Combined sewer outfall backflow valves
- Fifty Road Parkette completed



Visit by Minister McKenna

New & Enhanced Parks

- Waterford Park
- Red Hill Park
- Spencer Creek Estates
- Alexander Park
- Ridgemount Park
- Century Street Parkette
- Waterford Park (spray pad)



Spencer Creek Estates







BUILT ENVIRONMENT & INFRASTRUCTURE 2020 HIGHLIGHTS







Captain Cornelius Park



Bobby Kerr Park



Rockview Park



Alexander Park



Churchill Park





BUILT ENVIRONMENT & INFRASTRUCTURE

- Construction project delays
- Supply chain delays
- Modifications in municipal buildings
- Temporary facilities support
 - Supply distribution warehouse
 - Emergency overflow shelter at FirstOntario Centre
 - Dave Andreychuk Arena drive-through testing centre



Plexiglass Shields



Supply distribution warehouse 28







HEALTHY & SAFE COMMUNITIES 2020 HIGHLIGHTS



54 Neighbourhoods added to Vision Zero speed reduction program

24.6%



450

Traffic signal timing adjustments completed

25,060 Traffic sign inspections

Speed cushions installed

Reflective markers installed (on the LINC and RHVP)

77.8% Traffic signal installations

1,025 55% Turn arrow markings replaced

> Streets coverted to 2-way

Repainted

3,726 km

of roadway lane markings

23.9%

1,673 crosswalks repainted







HEALTHY & SAFE COMMUNITIES 2020 HIGHLIGHTS

Security

 Security measures in City Hall Forecourt including installation of camera

Road and Traffic Safety

- Modernization of Street Lighting Maintenance
- Vison Zero Action Plan:
 - 12 Community Safety Zones Implemented
 - Continued community education campaigns

Overall, the Vision Zero Road Safety
Program has resulted in 24 percent reduction in injury collisions over the last five years.





Red Light Cameras

HEALTHY & SAFE COMMUNITIES ment 2020 HIGHLIGHTS

Automated Speed Enforcement

- ASE pilot program in 16 locations over one year
- 20,000+ tickets issued in the first two months of operation
- Showing speed reduction of approx. 5km/h at the locations

Red Light Cameras

- Program running for 20 years
- 33 full-time camera sites
- Average 21,000 tickets annually
- 53% reduction in right-angle collisions at these locations
- 69% reduction in injury/fatal collisions at these locations



Automated Speed Enforcement



Red Light Cameras



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OUR PEOPLE & PERFORMANCE

- Many essential workers in Public Works
- Adapted to change and uncertainty
- Increased health and safety measures
- Staffing pressures on levels of service and delivery
- Redeployment and remote work
- Mental health and resiliency resources



Frontline Public Works



Frontline Public Works



Frontline HSR



CVOR rating improvements

- Upgraded safety rating issued by MTO
- Significant drop in accumulated points

Technology improvements

- Enhancements to online services
- Increased use of dashboards



Driver Training Simulator



Bell Utility Project







Leadership development

- Programs suspended due to COVID-19
- PM Standardization Training
- Virtual Training

Our People Survey

Implementation of action plans



188 actions in Public Works



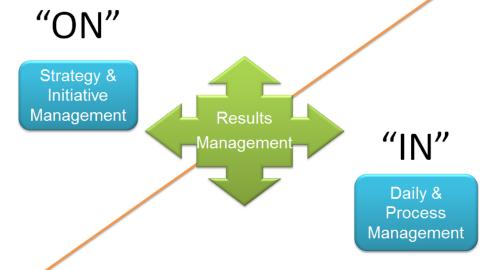






Working on the business

- Business acumen/change management response to loss of corporate knowledge with staff departures (retirements, job changes)
- Process Standardization
 - (e.g. *Construction Act* Prompt Payment)
- Divisional/Sectional Annual Reports
- Developmental Senior Project
 Manager roles across divisions
- Divisional leadership programs





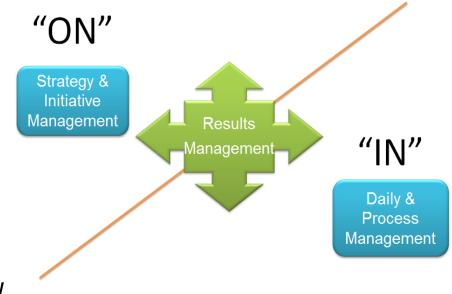


Departmental Strategic Planning

- Strategic framework/DLT mandate
- Quality management
- Workforce planning
- Common objectives for 2021-2024
- Balanced Scorecard/PW Analytics

Project Management Standardization

- Standard project charter and other templates for improved project performance and reporting across PW
- Phase 1 completed in 2020
- 35 Managers and 22 SPM's trained
- Phase 2 beginning in 2021





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COMMUNITY ENGAGEMENT & PARTICIPATION 2020 HIGHLIGHTS

- 26 Team Up to Clean Up Events
- 280 White Trillium Awards issued
- \$44,500 Traffic Island Sponsorship received
- HSR
 - (Re)envision engagement events
 - Online Accessibility Event
- Engage Hamilton: PW projects
 - Albion Falls
 - Valley Community Centre Park
 - Sidewalk Snow Clearing
- Water education resources online
- COVID-19 Town Halls





Team Up to Clean Up











ECONOMIC PROSPERITY & GROWTH

Open for Business

- Bell Project utility servicing
 - 210 kms of fibre optics installed
- AEGD Project
 - Upgrading 3 pumping stations
 - 16 RFTs for construction and equipment purchases
- Waterfront Development
 - Shorewall and wastewater pumping station complete, site servicing (Brownie Award)
 - Promenade Park/Copps Pier construction continues through 2021
- Hamilton Youth in Construction
 - 9 youth in the fall 2020 program
 - Classes transitioned virtual due to COVID-19

2020 HIGHLIGHTS



AEGD English church pumping station



Hamilton Youth in Construction 2020 42





ECONOMIC PROSPERITY & GROWTH

2020 HIGHLIGHTS







Pier 8 Wastewater Pumping Station

Pier 8 Shorewall Reconstruction

Pier 8 Shorewall







Pier 7 and 8 servicing









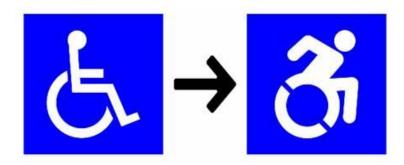
CULTURE & DIVERSITY 2020 HIGHLIGHTS

- Wheelchair swing at Gage Park
- Accessibility "mobi-mat" at the beach strip
- Additional accessible parking spaces and improved locations
- Dynamic symbol update





Accessibility "Mobi-mat"



Dynamic Symbol updates



Wheelchair swing at Gage Park





CULTURE & DIVERSITY 2020 HIGHLIGHTS

- Tenant Waste Guide available in 10 languages
- Hamilton Urban Precinct Entertainment Group awarded the contract to deliver entertainment, culture, and renewed vitality to Hamilton's downtown core
- Ancaster Memorial Arts Centre
- Cemeteries meeting cultural needs





Ancaster Memorial Arts Centre



Tenant Waste Guide

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PUBLIC WORKS QUALITY MANAGEMENT SYSTEM



QUALITY MANAGEMENT SYSTEM PRINCIPLES

In Public Works, we are dedicated to providing services that bring our city to life.

SERVE

our community with a commitment to meet or exceed approved service levels and regulatory requirements.

ENGAGE

with those we serve.

RESPECT

and protect public health, private and municipal property and the environment.

VALUE

and safeguard high levels of trust and confidence.

IMPLEMENT

safe and accessible infrastructure to enable efficient travel and support active lifestyles.

COMMUNICATE

with transparency and integrity.

EVOLVE

the organization through Performance Measurement and Continuous Improvement



The **PWQMS** seeks to meet the minimum standards as prescribed in ISO 9001:2015.

In 2020, a main highlight was the announcement of the **PWQMS Principles** showing our objectives and commitment towards providing quality services to citizens.





PUBLIC WORKS QUALITY MANAGEMENT SYSTEM 2020 Highlights

- Release of the PWQMS Operational Standard that identifies the requirements to plan, implement and control our operations
- Support the Corporate Pandemic Response team in the development and release of over 30 controlled documents
- Deliver training on Documents and Record Management practices
- Improve engagement and cross-functional collaboration in the development and release of Departmental operational and Health & Safety procedures







PUBLIC WORKS QUALITY MANAGEMENT SYSTEM 2020 Highlights

- Departmental Training Framework develop a procedure to ensure staff are trained on new and updated departmental procedures
- Internal Audit Program create and launch a Public Works Internal Audit program to ensure policies and procedures are being followed
- **PW QMS Non-Conformance Process** gather and consolidate requirements for the development of a non-conformance standard



LEADERSHIP

CONTINUOUS IMPROVEMENT

PROCESS PLANNING

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CONTINUOUS IMPROVEMENT 2020 HIGHLIGHTS

Ideas Generated





414 Since Program Inception

Projects Started





393 Since Program Inception

Projects Completed





271 Since Program Inception

Kaizen Events





35 Since Program Inception

Recovered Capacity



🌀 \$534k 👢 79%



\$3.694k Since Program Inception

Cost Reduction





\$1.457k Since Program Inception

Cross - Dep / Cross Div. Collaboration







Staff Involvement





Green Belts Trained



Since Program Inception







ASSET METRICS

Facilities Management



Manage \$2.1 Billion in assets >500 Facilities

Sewers and Watermains



1,202 km Sanitary Sewer 1,231 km Storm Sewer

571 km Combined Sewer

Combined sewer overflow tanks

2,110 km Watermains



Transportation Operations



Manage

45,385 Street lights

Road Maintenance

Mangage



6,492 lane km of roads



231.3 km bike lanes



2,445 km sidewalks

Fleet Services

Manage and Maintain



1,350 **Units**

Bridges & Structures

Manage and Maintain



Parks and **Open Spaces**



228 Playgrounds

68 Spray Pads

525 Park Locations

Litter Containers

600+ Streetscape litter containers



Cemeteries





Solid Waste Management



Operate:

- 3 Community Recycling Centres & Transfer Stations
- 1 Open Landfill
- 12 Closed Landfills
 - Material Recycling Facility
 - Central Composting Facility



PERFORMANCE METRIC'S

Winter Operations

Manage 0% 6,492 lane km of road

Electricity produced

24,316 мwн



22,109

Visitors to the new Gage Park **Tropical Greenhouse**



Road Maintenance

109,960km of roadway patrolled for deficiencies





3,902 Traffic sign repaired/replaced





31,878 Pothole sites repaired



Natural Open Space & Parkland



Manage 24,086 hectares



Play structure inspections

2,646





935 metres of trails constructed 136%



Cemeteries

5% Internments at 1,187

Hamilton Cemeteries

Solid Waste Management



Over **27 Million** Waste pickups per year



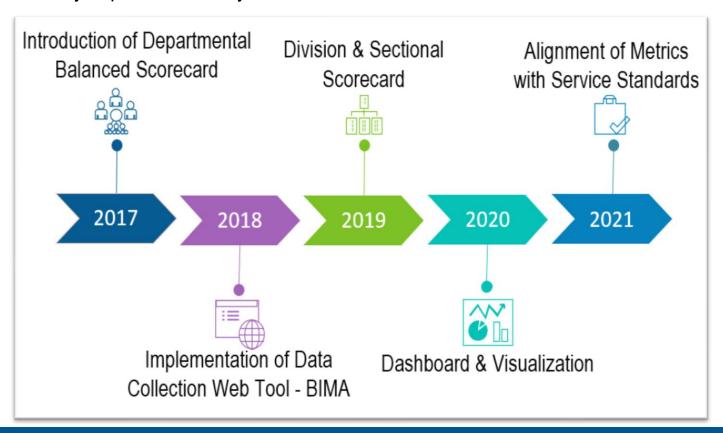
222,600 tonnes of residential waste

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Program Objectives

- Show strategic and operational goals are met
- Enforce accountability on performance
- Continuously improve efficiency / effectiveness of services





Departmental web-based analytics tool allows staff to monitor performance in real-time to demonstrate compliance, achieve efficiency and continuously improve consistency. Snapshot of dashboard data as of Dec 2020







HIGH-PERFORMING KPIs

As of December, 2020

Objective	Metric	Target	YTD	Health
Waste – Missed Collection	Number of missed collections per 10,000 pickups (no bulk)	4	3	A ST
Play Structure Safety Inspections	Maintain >75% inspected play sites as per regulation	75%	100%	Fr.
Safety - CVOR	Average CVOR	49.9%	47.3%	The state of the s
Purchasing Policies	Total number of Policy 19 Occurrences	12	3	ST.



OPPORTUNITIES FOR IMPROVEMENT KPIs



As of December 2020

Objective	Metric	Target	YTD	Health
Cemeteries – Pre-need sales	Amount of pre need sales	\$1,372,000	\$1,162,717	
Water – Safe drinking water	Maintain zero confirmed adverse water quality incidents	0	12	
Transit – Cancelled Service	Number of hours of cancelled services due to no operator available	0	8	







COVID-19

Ongoing impacts on operations

Right-of-Way Capital Program Delivery

- Revised roads budget achieves re-investment rate of 1.09%
 - Below the FCM recommended 2%-3% target
- MECP Changes system wide ECA
- Excess Soils O.Reg 406-19
- Complete Streets design and construction of multi-modal transportation systems
- Higher risk and complex projects (e.g. escarpment, tunneling, etc.)



Upper Centennial Parkway Trunk Sewer Project



Multi-modal transportation



OVERALL CONDITION INDEX (OCI) RESULTS





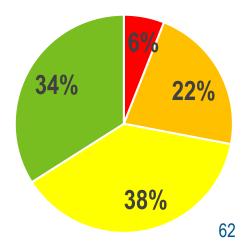
Overall network average OCI is 63 (Minor Rehab.)*

*From 2019 pavement condition assessment





Breakdown Across Full Network



Overall Condition Index

0-40	40-55	55-70	>70
Reconstruction	Major Rehab.	Minor Rehab.	Good



FACILITY CONDITION INDEX (FCI) RATINGS



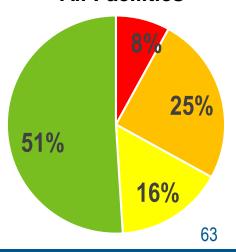


Overall FCI across 500+ facilities is 8.73% (Fair)





Breakdown Across All Facilities



Facility Condition Index

0-5%	5-10%	10-30%	>30%
Good	Fair	Poor	Critical



Climate Change

- Building resiliency and taking action to mitigate and adapt to climate change
- Key areas: water quality, flood mitigation, greenhouse gas reduction, invasive species
- Public Works plays a major role in the City's Corporate Climate Change goals
- Prioritizing actions
 - Corporate Energy Policy and energy projects
 - Resiliency program development to support a climate prioritized approach
 - Climate inventory for baseline application
 - Focus on green fleet/equipment





Solar panels-Wentworth Operations Centre

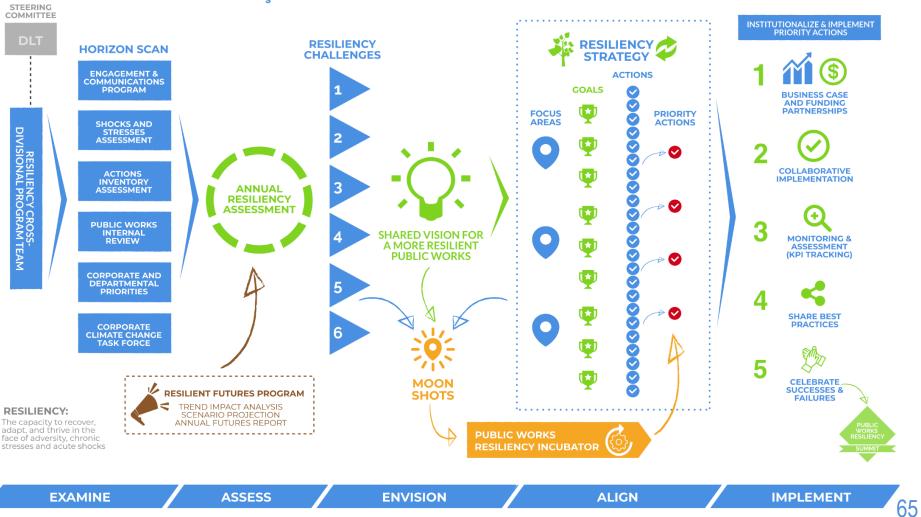


Compressed Natural Gas (CNG) Bus

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CLIMATE RESILIENCY PROGRAM >>>>> PUBLIC WORKS





Urgent Requests & Emergency Response

- Public Works is highly reactive to urgent requests and emergencies
- This reduces capacity to manage planned activities
- Response to extreme weather events can result in unexpected budget deficits.



Hwy 8 Dundas Escarpment Failure

Examples:

- Escarpment slope failures (Hwy 8, McNeilly)
- Significant storm response (downed trees, flooding)



Storm Damage



Hwy 8 Dundas Escarpment Repair

Forestry

- Demand for continued focus on technology and integration into daily operations
- Limited locations for new trees to be planted
- Storm damage response and costs:
 - Climate emergency
 - Increase intensity / frequency
- Continue to identify emerging threats to urban canopy and develop a management plan:
 - Oak Wilt Disease
 - Gypsy Moth (Lymantria dispar)
 - Asian Longhorned Beetle
 - Beech Bark Disease

Current tree canopy is approx. 21.2%



Forestry: Storm Clean Up



Contract Renewals

Contract	Timing	Budget Impact
Transfer Station / Community Recycling Centres	March 2020	\$1,542,960
Curbside Waste Collection	March 2021	\$2,936,820
Organic Processing	March 2021	\$899,000
Recycling Processing	March 2021	\$598,000



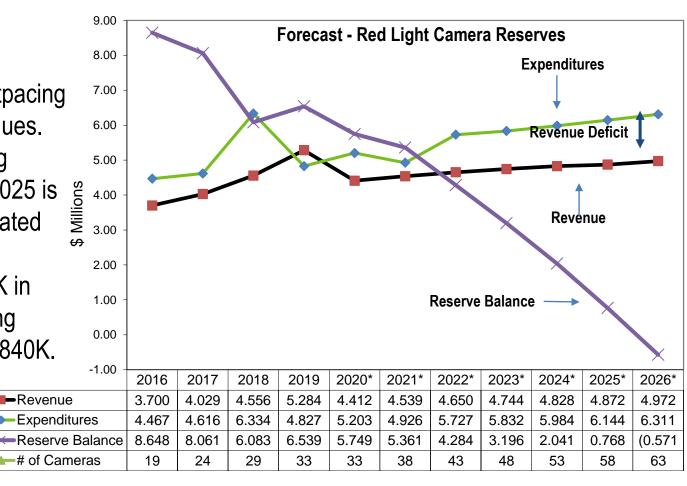
Automated Speed Enforcement & Red Light Camera Offences

- ASE violations are currently processed in the provincial offences court system, which administers offences under the Provincial Offences Act (POA).
- The City is working with partner municipalities to have the Provincial government to transfer both the ASE and RLC violations to be processed under the Administrative Monetary Penalty (AMP) system
 - This would allow the programs to be more efficient and effective manner, and would reduce the significant workload in the POA system.
- The influx of tickets related to ASE and RLC has resulted in the need to hire 3 to 4 additional staff in POA and legal to deal with the processing of tickets.



Red Light Camera Reserve

- The forecasted expenditures are outpacing the forecasted revenues.
- The projected ending reserve balance in 2025 is \$770K with an estimated reserve shortfall of approximately \$570K in 2026 with a remaining shortfall in 2027 of \$840K.



^{*} Denotes forecast



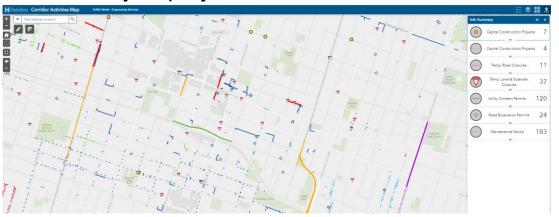


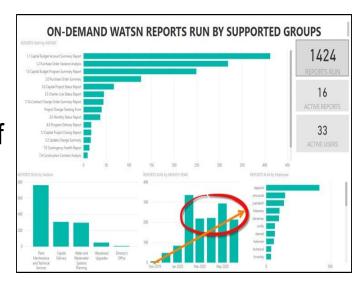
Workforce Management

- Difficulty with filling skilled roles
- Creating a healthy, engaged and supportive workplace will attract and retain knowledgeable staff
- Plan for the departure of long standing and knowledgeable employees

Technology

 Must leverage technology and innovation to improve the delivery of projects and services











Legislation

Changes to federal and provincial legislation have an associated impact on how the City delivers services:

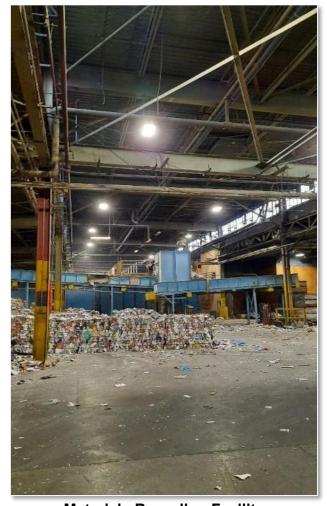
- Bill 6 Infrastructure for Jobs & Prosperity Act, 2015 requirements for a strategic asset management plan
- Bill 47 *Making Ontario Open for Business Act, 2018* impacts minimum wage standards, work scheduling, personal emergency leave
- Bill 66 Restoring Ontario's Competitiveness Act, 2019 declared municipalities as "non-construction employers"
- Bill 108 More Homes, More Choice Act, 2019 changed the structure of development charges and parkland acquisition
- Bill 142 Construction Act, 2019 liens, prompt payment, payment disputes
 - On Site and Excess Soil Management Ontario Regulation 406/19 made under the Environmental Protection Act requires testing, approvals, quantifying, tracking and reporting excess soil and management
- Bill 151 Waste-Free Ontario Act, 2016 increasing waste diversion and building a circular economy



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Energy & Fuel Markets

- Global adjustment benefit
- Aging fuel sites
- Electricity, diesel, gasoline and natural gas energy markets remain volatile and are impacted by factors such as global markets, supply and demand and regulatory
- Projects and programs that support climate change initiatives
- Emphasis on climate change and emissions reduction



Materials Recycling Facility
Lighting Upgrade

Growth

- There is currently no mechanism to identify operating impacts from growth related activities in departmental budgets
- Budgetary constraints make it a challenge to accommodate these growth impacts
- Development application approvals
- Intensification challenges for Public Works



City Growth



Waterfront Servicing Project



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Definitions: Minimum Maintenance Standards (MMS)

MMS Deficiency:

- A surface discontinuity on or within a sidewalk that exceeds two centimeters
- Any vertical discontinuity that creates a step formation at any joint or crack in the surface of the sidewalk

City Requirements for MMS deficiency:

 Reasonable measures to protect users of the sidewalk from the discontinuity, include making permanent or temporary repairs (asphalt, grinding, concrete), alerting users' attention to the discontinuity or preventing access to the area of discontinuity

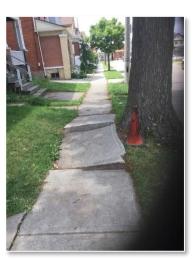
SIDEWALK PROGRAM



Trip Hazard Deflection



Trip hazard



Root Damage Deflection



Uneven Surface Deflection





Definitions: Minimum Maintenance Standards (MMS)

NON MMS Deficiency:

 Vertical deflections less than 2 cm, concrete spalling, cracking, improper crossfall and asphalt patches on concrete.

City Requirements for NON MMS deficiency:

Reasonable measures to identify deficiency

SIDEWALK PROGRAM



Asphalt Repair

Concrete Spalling







Non MMS Deflection



SIDEWALK PROGRAM

Based on annual inspection of 2,445 kms of sidewalks:

Reported deficiencies City wide in 2019:

- 4,146 MMS deficiencies
- 136,224 Non MMS deficiencies

Cost to repair all deficiencies in one year would be \$44M

= Funding gap of \$38M









2019 SIDEWALK PROGRAM

	Α	В	С	D	E	F	G	Н
	Division	Program Area	2019 Budget	2019 Funding Source	Completed By Contractors	Completed by City Staff	Estimated # of km's in 2019	Estimated % of Network in 2019
1	Transportation, Operations and	Sidewalk Programs Operating Budget	\$2,993,070	Operating Levy	\$562,310	\$2,430,760		
	Maintenance	Sidewalk Rehabilitation Program	\$750,000	Capital Levy	\$750,000	\$0	18.7	0.8%
		Ward and Minor Maintenance	\$790,000	Ward & Minor Maintenance	\$790,000	\$0		
			•	Transportation, Operati	ions and Maintenan	ce SUBTOTAL:	18.7	0.8%
2	Engineering Services	Road Replacement Program	\$756,000	Ward & Minor Maint: \$185,000 Gas Tax: \$571,000	\$756,000	\$0	7.2	0.3%
3		Rural Rehabilitation Program	\$0	N/A	\$0	\$0	0.0	0.0%
4		Urban Rehabilitation Program	\$1,081,500	Gas Tax	\$1,081,500	\$0	10.3	0.4%
					Engineering Service	es SUBTOTAL:	17.5	0.7%
						GRAND TOTAL	36.2	1.5%

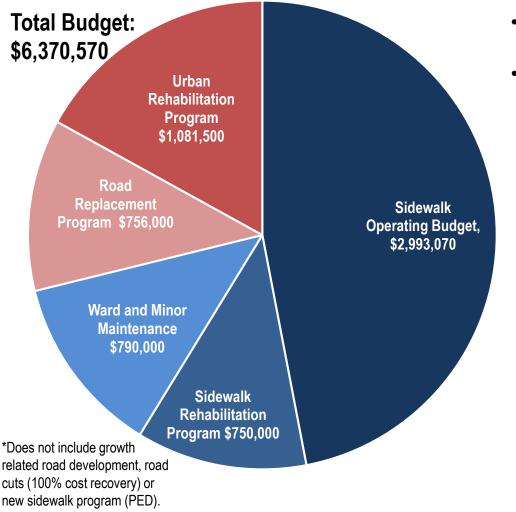
[5	5	Engineering	Road Cuts Program	\$887,119	100% recovered from permit taker	\$887,119	\$0	6.1	0.2%
		Services							

^{*}Does not include growth related road development or the new sidewalk program (PED)



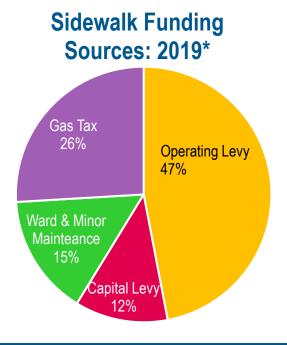
2019 SIDEWALK PROGRAM

Sidewalk Program Areas: 2019*



Quick Stats:

- 1.5% of network addressed in 2019
- 62% of sidewalk work completed by contractors (38% by city staff)
- Of maintenance work (**BLUE** program areas)
 - 54% for sidewalks; 46% is for other repairs (curb damage, driveway repairs, resetting catch basins, asphalt patching)









Right-of-Way projects

- Rymal Road/Regional Road 56 Construction
- Rymal Road EA Upper James to Dartnall
- Neighbourhood resurfacing: Ancaster Heights (Lime Kiln North), Central, McQuesten West, Battlefield, Greenford, Vincent, Bonnington, Southham
- Facility projects
- Solar thermal pilot at Westmount Rec Centre
- Passive House (500 MacNab St. N.)
- Recreation Indoor/Outdoor Study
- Roof Management
- Valley Park Substantial Performance
- EFFM portfolio adds Police Forensics facility & 4 stations
- LED lighting upgrades

Development of Core Asset Management Plans



Police Forensics Building



500 MacNab Passive House



Transportation Operations Initiatives

- Implementation of the RHVP / LINC Operational Plan
- Connected Autonomous Vehicle Test Track
- Railway Regulation Safety Improvements
- Vision Zero initiatives

Space Management Solutions

- Master Office Space Management Plan Ontario Works, Public Health, Public Works, Corporate Services & Human Resources
- Yards Review & Space Optimization

Horticulture

- Upgrades of horticultural infrastructure (i.e. irrigation)
- Enhanced programming for the Tropical Greenhouse



Neighbourhood Speed Reductions



Horticulture Programs

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Waste Programs

- New waste collection service contract
- Route optimization review implementation
- New waste collection packers
- Preparing for future growth (curbside collection and downtown cleanliness)
- Solutions for mobility and geotagging of assets

Other Major Initiatives

- Year 9 of the 10-Year Emerald Ash Borer Management Plan
- Year 5 of 10-Year Transit Strategy
- Our People Survey action implementation and launch of new OPS Survey (2021-2024)



Waste collection packer



Large Scale Tree Planting



Quality Management System (QMS)

- Departmental Training Framework develop a procedure to ensure staff are trained on new and updated departmental procedures
- Internal Audit Program create and launch a Public Works Internal Audit program to ensure policies and procedures are being followed
- PW QMS Non-Conformance Process gather and consolidate requirements for the development of a non-conformance standard



Looking Ahead 2022 – 2024 Public Works





Enterprise Asset Management (EAM)

Significant opportunity for improved asset management and higher quality service delivery with less cost

- Business case focused on redesigning EAM practices and processes with associated system workflows
- 11+ software systems in Public Works cost \$1.06M annually
- Project approved by Council Q1 2020; Contract signed Q3 2020.
- Discovery phase in progress until Q2 2021 followed by full implementation





Right-of-Way Infrastructure

- Explore technology applications to address the need for more cost effective road rehabilitation strategies
- New roads data tied to asphalt performance
- Improved roads deterioration curves
- Large scale LIDAR usage
- Identifying the reconstruction requirements for the LINC

Roadway Safety

- Implementation of the strategic road safety strategy that focuses on Vision Zero and the Complete Livable Better Streets principles
- Investigate infrastructure requirements for autonomous vehicles



Improved use of technology



Road Rehabilitation



Major Right-of-Way Projects

- Stone Church Road feeder watermain
- Rymal Road
- Waterdown East-West Bypass
- Nebo Road
- Claremont steel facing wall removals (bin walls)
- Claremont downbound resurfacing (with bin walls)

Transit

- Continue with the implementation of the 10-Year
 Transit Strategy with a focus on modal split and growth
- ReEnvison

Waste

- Prepare for the transition of the Blue Box Program to comply with the Waste-Free Ontario Act (Bill 151)
- Focus on green fleet/equipment initiatives



Claremont access bin walls



Waste Collection

Facilities

- Sir Wilfred Laurier Gymnasium 2023
- Transit Maintenance Storage Facility construction phase (pending funding)
- Riverdale Community Hub 2023
- Stadium Precinct Park 2023

Other Major Initiatives

- Electric bus strategy development and pilot
- Woodward Wastewater Treatment Plant upgrades
- Dundas Wastewater Treatment Plant upgrades



Future Riverdale Community Hub



Rendering of Transit Maintenance Storage Facility 89



- Develop Asset Management Plans for core assets and green infrastructure to comply with the *Infrastructure for Jobs and Prosperity Act* (O.Reg. 588/17)
- Undertake projects for parks Waterfront Trail redevelopment, shoreline protection and erosion control
- Participate in the evolution of the Hamilton Harbour Remedial Action Plan (HHRAP)
- Ongoing City projects related to the Waterfront Development



Waterfront Shore Wall Construction



Waterfront Trail damage

Energy and Emission Initiatives

- Implement revised Corporate Energy Policy
- Steps to advance toward our energy targets
 - Improving efficiency
 - Renewable energy
 - Carbon credits

Upcoming Initiatives:

- Implementing Community Energy and Emissions Plan pathway recommendations (community and Public Works actions)
- Development of City Wide RNG Strategy
- Assess HRP long term renewable energy strategy



20% by 45% by 60% by 2020 2030 2050

25% Cumulative Energy **Intensity Reduction** as of 2019

Corporate Emissions Reduction Target (GHG)

20% by 2020

50% by 2030

100% 80% by 2050

42% GHG Reduction as of 2018

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2021 PRELIMINARY TAX OPERATING BUDGET **Public Works Department**

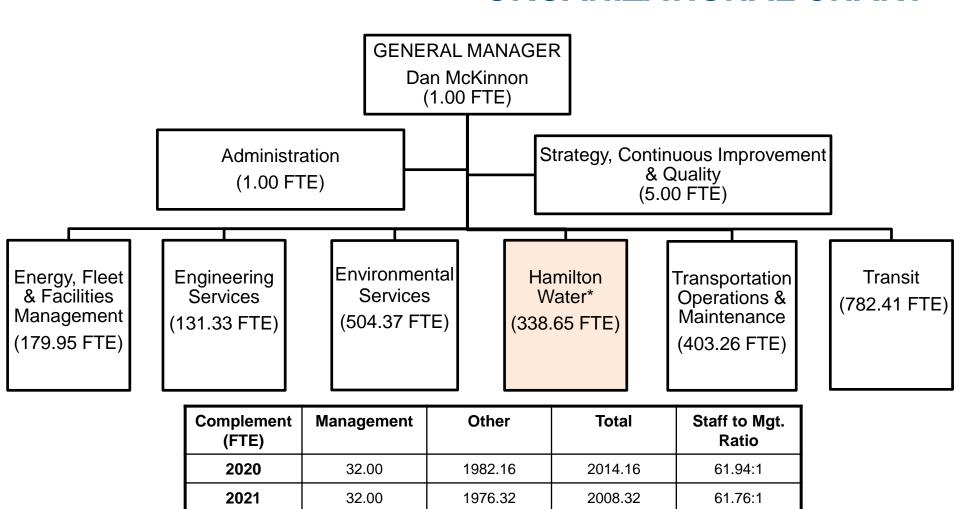


2021 GROSS BUDGET

2021 Gross Capital and Operating Budgets \$1.326 billion REVENUE \$122.8 M RATE **TAX LEVY OPERATING** \$266.1 M **GROSS TAX** \$245.6M **OPERATING** (FCS20073/Nov. 23) \$388.9M RATE **CAPITAL** \$299.9M TAX CAPITAL \$391.3M (FCS20073/Nov. 23) (FCS20101/Dec. 18) 93



ORGANIZATIONAL CHART



(5.84)

(5.84)

0.00

Change





^{*} Complement excludes Hamilton Water

2021 OPERATING BUDGET BY DIVISION

-2021 vs 2020 Net Change-

2020	2021	2021	\$	%
Restated	Preliminary	Preliminary		
Net	Gross	Net		
709,400	724,880	724,880	15,480	2.2%
12,778,750	23,386,380	13,207,430	428,680	3.4%
-	21,243,920	-	-	0.0%
82,909,900	107,926,830	88,355,900	5,446,000	6.6%
78,066,940	141,518,570	80,754,700	2,687,760	3.4%
82,247,280	94,087,530	83,077,280	830,000	1.0%
256,712,270	388,888,110	266,120,190	9,407,920	3.7%
Box Municipal Fur	nding Allocation		(1,389,850)	(0.6%)
·			8,018,070	3.1%
	Restated Net 709,400 12,778,750 - 82,909,900 78,066,940 82,247,280 256,712,270 Box Municipal Fundaments	Restated Net Preliminary Gross 709,400 724,880 12,778,750 23,386,380 - 21,243,920 82,909,900 107,926,830 78,066,940 141,518,570 82,247,280 94,087,530 256,712,270 388,888,110	Restated Net Preliminary Gross Preliminary Net 709,400 724,880 724,880 12,778,750 23,386,380 13,207,430 - 21,243,920 - 82,909,900 107,926,830 88,355,900 78,066,940 141,518,570 80,754,700 82,247,280 94,087,530 83,077,280 256,712,270 388,888,110 266,120,190	Restated Net Preliminary Gross Net 709,400 724,880 724,880 15,480 12,778,750 23,386,380 13,207,430 428,680 - 21,243,920 - - 82,909,900 107,926,830 88,355,900 5,446,000 78,066,940 141,518,570 80,754,700 2,687,760 82,247,280 94,087,530 83,077,280 830,000 256,712,270 388,888,110 266,120,190 9,407,920



2021 KEY BUDGET DRIVERS

	TOTAL PRELIMINARY NET LEVY INCREASE	\$8,018,070	3.1%
	Curbside Waste Collection Contract - New	\$2,936,820	1.1%
IAL	Organics Processing Contract - New	\$899,210	0.4%
MEN	Recycling Processing Contract	\$598,280	0.2%
ENVIRONMENTAL SERVICES	Recycling Program Revenue Pressure	\$1,491,690	0.6%
N SE	Transfer Station / Community Recycling Centres Contract	(\$1,542,960)	(0.6%)
Ш	Increased Blue Box Municipal Funding Allocation	(\$1,389,850)	(0.5%)
	Reductions to Underperforming Routes (PW20015) (ERC \$857K & Vehicle \$103K)	(\$960,230)	(0.4%)
TRANSIT	Contribution to Reserve to fund PRESTO commissions that will be incurred when ridership recovers	\$1,341,000	0.5%
₽ B	Elimination of Paper Fare Media (\$366K) & PRESTO Device Refresh (\$200K)	(\$565,500)	(0.2%)
	Transit Fleet Reserve Inflationary Increase	\$ 207,470	0.1%
MOT	Reduced Energy Costs LED Streetlighting	(\$183,000)	(0.1%)
-			
	Employee Related Costs (Net) - Excludes ERC related to Underperforming Routes	\$4,585,750	1.8%
>	Insurance and Vehicle Insurance Charges	\$486,540	0.2%
ALL PW	Computer Hardware Lease Charges - New Subscription based	\$208,420	0.1%
¥	Fuel – Diesel & Unleaded (Rate decrease from 1.04/L Diesel and 1.10/L Unleaded to 1.00/L for both)	(\$890,510)	(0.3%)
	Right Sizing Budget	(\$410,440)	(0.2%)
	() Denotes budget savings		96



HISTORICAL BUDGET INCREASES

		2018 Ap	proved	2019 Ap	proved	2020 Ap	proved	2021 Pre	liminary
		\$ Change from 2017	% Change from 2017	\$ Change from 2018	% Change from 2018	\$ Change from 2019	% Change from 2019	\$ Change from 2020	% Change from 2020
	Total Net Levy Increase	8,486,320	3.8%	11,163,190	4.8%	9,988,320	4.1%	8,018,070	3.1%
	Key Drivers:								
П	10 Year Transit Strategy (Net)	2,188,000	1.0%	1,784,000	0.8%	-	-	-	-
NS	10 Year Transit Strategy (Net) PRESTO Operating Agreement Transit Fleet Reserve	356,000	0.2%	642,000	0.3%	1,243,000	0.5%	1,341,000	0.5%
IRA	Transit Fleet Reserve	-	-	616,000	0.3%	628,000	0.3%	207,470	0.1%
	DAK 15 Kidersnip Growth	1,680,000	0.8%	4,284,000	1.9%	2,664,000	1.1%	-	-
۸S	Curbside Waste Collection Contract - New Organics Processing Contract - New							2,936,820	1.1%
EN	Organics Processing Contract - N	lew						899,210	0.4%
	What the Net Levy would be								
	excluding Key Drivers	4,262,320	1.9%	3,837,190	1.6%	3,531,320	1.4%	2,633,570	1.0%



MULTI-YEAR OUTLOOK

Multi-Year Outlook						
202	22	20	23	2024		
Budget	% Change	Budget	% Change	Budget	% Change	
\$	from 2021	\$	from 2022	\$	from 2023	

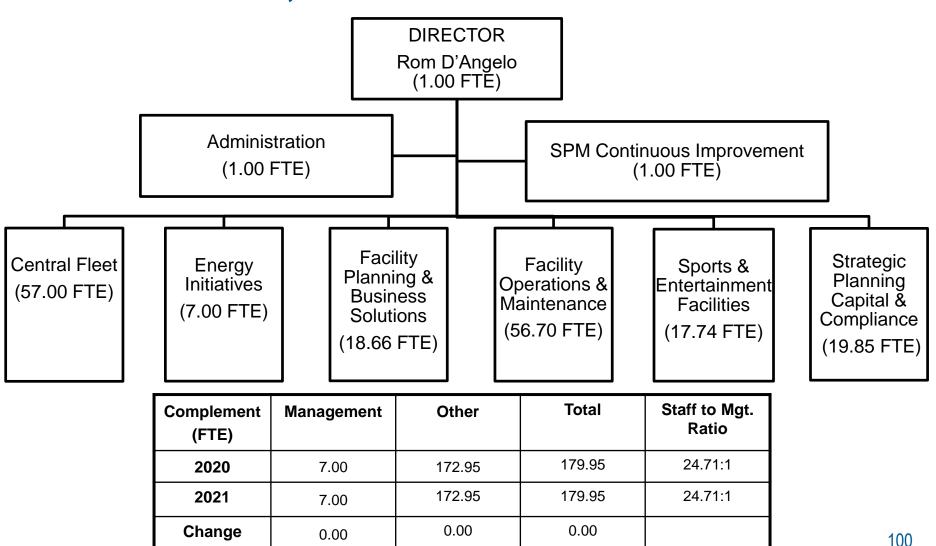
Total Public Works - Tax Net Levy	279,928,580	5.2% 291,192,200	4.0% 302,933,390	4.0%
Key Transit Drivers:				
DARTS Ridership Growth	1,720,000	1,820,000	1,950,000	
10 Year Transit Strategy (Net)	4,144,000	3,315,000	3,085,000	
PRESTO Maintenance Agreement	380,560	189,230	207,630	
Transit Fleet Reserve Inflationary Increase	229,800	252,800	276,490	
Key Environmental Services Drivers:				
Various Contractual Agreements	2,562,790	1,123,390	966,230	







ENERGY, FLEET & FACILITIES MANAGEMENT





2021 OPERATING BUDGET ENERGY, FLEET & FACILITIES

Energy Fleet and Facilities

-2021 vs 2020 Net Change-

	2020	2021	2021	\$	%
	Restated	Preliminary	Preliminary		
	Net	Gross	Net		
Fleet Services	30,990	1,488,390	62,630	31,640	102.1%
Corporate Facility Ops & Tech	2,187,480	3,371,850	1,940,150	(247,330)	(11.3%)
Facilities Planning and Business Solutions	801,460	1,628,130	942,270	140,810	17.6%
Community Facility Ops & Tech Serv	6,527,270	6,609,990	6,609,990	82,720	1.3%
Sports & Entertainment Facilities	2,907,000	6,329,710	3,097,410	190,410	6.6%
Director EFF	307,220	335,370	312,540	5,320	1.7%
Energy Initiatives	3,290	950,320	-	(3,290)	(100.0%)
Strategic Plan & Capital Compliance	14,040	2,672,620	242,440	228,400	1,626.8%
Total Energy Fleet and Facilities	12,778,750	23,386,380	13,207,430	428,680	3.4%

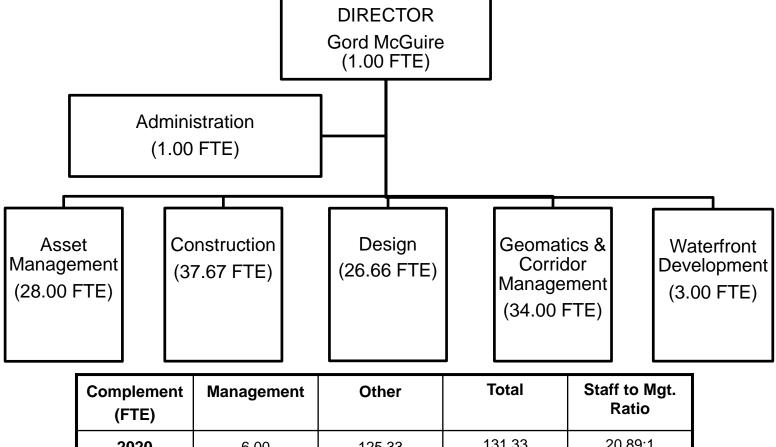


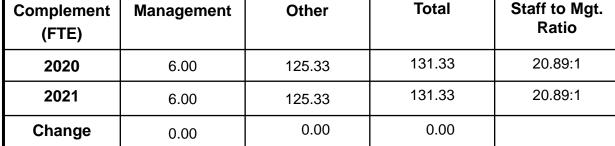
2021 ENERGY, FLEET & FACILITIES MANAGEMENT BUDGET DRIVERS

Item	Impact (\$000)
Contractual Pressures	\$233
Employee Related Costs (Net)	\$164
Fuel – Diesel & Unleaded	(\$111)
Insurance and Vehicle Insurance Charges	(\$43)



ENGINEERING SERVICES







2021 OPERATING BUDGET ENGINEERING SERVICES

Engineering Services

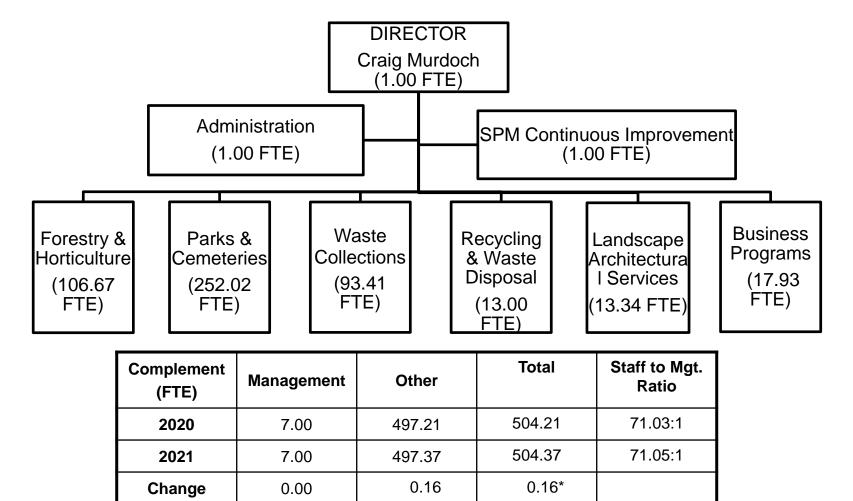
-2021 vs 2020 Net Change-

	2020	2021	2021	\$	%
	Restated	Preliminary	Preliminary		
	Net	Gross	Net		
Asset Management	-	3,555,150	-	-	0.0%
Construction	-	4,838,800	-	-	0.0%
Design Services	-	3,070,970	-	-	0.0%
Director of Engineering Services	-	2,014,590	-	-	0.0%
Geomatics and Corridor Management	-	7,082,980	-	-	0.0%
Waterfront Development	-	681,430	-	-	0.0%
Total Engineering Services	-	21,243,920	-	-	0.0%

Costs are mainly recovered from capital



ENVIRONMENTAL SERVICES



^{*} Increase of 0.16 FTE for the floral beautification of traffic islands and medians (approved under Public Works Committee Report 20-007)



2021 OPERATING BUDGET ENVIRONMENTAL SERVICES

Environmental Services

-2021 vs 2020 Net Change-

2020	2021	2021	\$	%
Restated	Preliminary	Preliminary		
Net	Gross	Net		
7,282,090	21,736,110	8,343,560	1,061,470	14.6%
32,884,030	36,136,670	36,094,670	3,210,640	9.8%
2,173,310	2,470,940	2,353,990	180,680	8.3%
(699,450)	(701,070)	(701,070)	(1,620)	0.2%
13,366,270	15,046,150	13,658,030	291,760	2.2%
109,740	2,079,200	104,050	(5,690)	(5.2%)
27,793,910	31,158,830	28,502,670	708,760	2.6%
82,909,900	107,926,830	88,355,900	5,446,000	6.6%
g Allocation			(1,389,850)	(1.7%)
Amendments			4,056,150	4.9%
	Restated Net 7,282,090 32,884,030 2,173,310 (699,450) 13,366,270 109,740 27,793,910 82,909,900 g Allocation	Restated Preliminary Net Gross 7,282,090 21,736,110 32,884,030 36,136,670 2,173,310 2,470,940 (699,450) (701,070) 13,366,270 15,046,150 109,740 2,079,200 27,793,910 31,158,830 82,909,900 107,926,830	Restated Preliminary Preliminary 7,282,090 21,736,110 8,343,560 32,884,030 36,136,670 36,094,670 2,173,310 2,470,940 2,353,990 (699,450) (701,070) (701,070) 13,366,270 15,046,150 13,658,030 109,740 2,079,200 104,050 27,793,910 31,158,830 28,502,670 82,909,900 107,926,830 88,355,900	Restated Net Preliminary Gross Net 7,282,090 21,736,110 8,343,560 1,061,470 32,884,030 36,136,670 36,094,670 3,210,640 2,173,310 2,470,940 2,353,990 180,680 (699,450) (701,070) (701,070) (1,620) 13,366,270 15,046,150 13,658,030 291,760 109,740 2,079,200 104,050 (5,690) 27,793,910 31,158,830 28,502,670 708,760 82,909,900 107,926,830 88,355,900 5,446,000

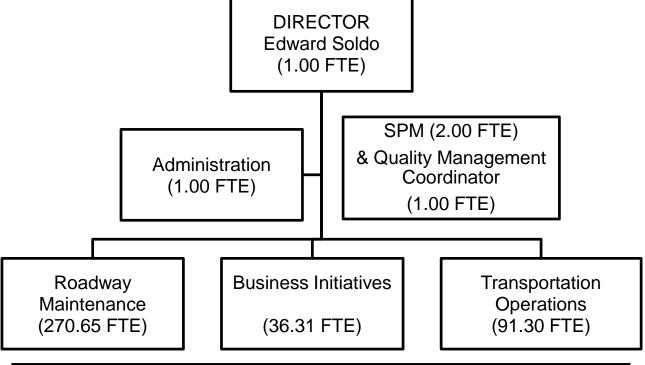


2021 ENVIRONMENTAL SERVICES BUDGET DRIVERS

Item	Impact (\$000)
Curbside Waste Collection Contract	\$2,937
Recycling Program Revenue Pressure	\$1,492
Employee Related Costs (Net)	\$1,049
Organics Processing Contract	\$899
Recycling Processing Contract	\$598
Insurance and Vehicle Insurance Charges	\$222
Transfer Station / Community Recycling Centres Contract	(\$1,543)
Increased Blue Box Municipal Funding Allocation	(\$1,390)
Right Sizing Budget	(\$355)
Fuel – Diesel & Unleaded	(\$153)



TRANSPORTATION OPERATIONS & MAINTENANCE



Complement (FTE)	Management	Other	Total	Staff to Mgt. Ratio
2020	4.00	399.26	403.26	99.82:1
2021	4.00	399.26	403.26	99.82:1
Change	0.00	0.00	0.00	



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2021 OPERATING BUDGET TRANSPORTATION OPERATIONS & MAINTENANCE

Transportation Operations & Maintenance

-2021 vs 2020 Net Change-

	2020	2021	2021	\$	%
	Restated	Preliminary	Preliminary		
	Net	Gross	Net		
Roadway Maintenance	63,159,250	65,876,140	63,672,100	512,850	0.8%
Director – Trans Ops & Mtce	(627,440)	(624,700)	(624,700)	2,740	(0.4%)
Transportation Operations	15,710,570	24,621,970	15,875,160	164,590	1.0%
Business Initiatives	4,004,900	4,214,120	4,154,720	149,820	3.7%
Total Transportation Operations & Maintenance	82,247,280	94,087,530	83,077,280	830,000	1.0%



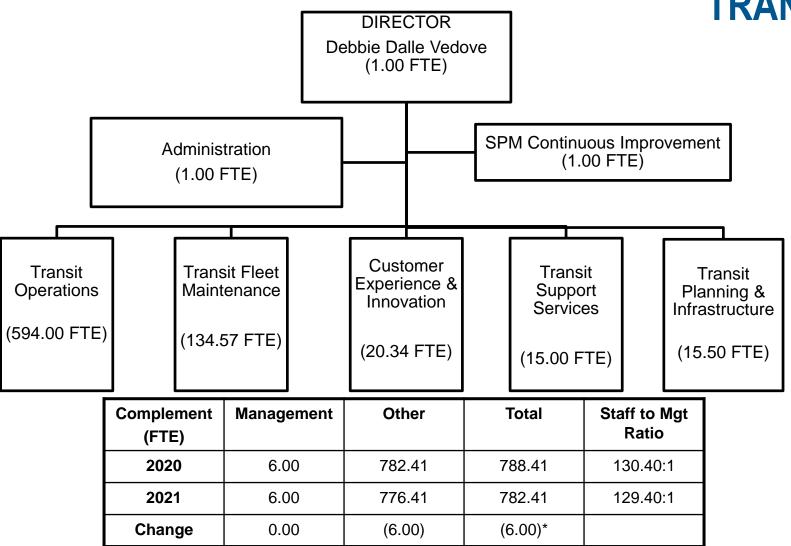
2021 TRANSPORTATION OPERATIONS & MAINTENANCE BUDGET DRIVERS

Item	Impact (\$000)
Employee Related Costs (Net)	\$898
Insurance and Vehicle Insurance Charges	\$266
Fuel – Diesel & Unleaded	(\$226)
Savings in Energy / Streetlighing Costs	(\$183)
Right Sizing Budget	(\$55)



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TRANSIT



^{*} Decrease of 6 FTE due to underperforming routes (approved under report PW20015)



2021 OPERATING BUDGET TRANSIT

Transit

-2021 vs 2020 Net Change-

	2020	2021	2021	\$	%
	Restated	Preliminary	Preliminary		
	Net	Gross	Net		
Customer Experience and Innovation	25,947,090	28,470,780	26,044,480	97,390	0.4%
Transit Planning and Infrastructure	2,964,980	3,030,870	3,030,870	65,890	2.2%
Support Services	2,098,650	1,802,990	1,801,990	(296,660)	(14.1%)
Director of Transit	127,110	140,730	140,730	13,620	10.7%
Financial Charges & General Revenue	(35,618,720)	17,669,230	(33,557,140)	2,061,580	(5.8%)
Operations HSR	50,439,060	58,255,830	51,355,470	916,410	1.8%
Transit Fleet	32,108,770	32,148,140	31,938,300	(170,470)	(0.5%)
Total Transit	78,066,940	141,518,570	80,754,700	2,687,760	3.4%



2021 TRANSIT BUDGET DRIVERS

Item	Impact (\$000)
Employee Related Costs (Net) – Excludes Underperforming Routes	\$2,382
Reductions to Underperforming Routes (PW20015) (Employee related costs \$857K & Vehicle \$103K)	(\$960)
Contribution to Reserve to fund PRESTO commissions that will be incurred when ridership recovers	\$1,341
Elimination of Paper Fare Media (\$366K) & PRESTO Device Refresh (\$200K)	(\$566)
Transit Fleet Reserve Inflationary Increase	\$207
Fuel – Diesel & Unleaded	(\$395)





THANK YOU